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TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371	1454.1098 **09/936690**

INTERNATIONAL APPLICATION NO PCT/DE00/00779	INTERNATIONAL FILING DATE 14 March 2000	PRIORITY DATE CLAIMED 17 March 1999

TITLE OF INVENTION
METHOD AND DEVICE FOR MAPPING CONTROL CHARACTERS

APPLICANT(S) FOR DO/EO/US
Andreas EBERT

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. [X] This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.
2. [X] This is an express request to immediately begin national examination procedures (35 U.S.C. 371(f)).
3. [X] The US has been elected by the expiration of 19 months from the priority date (PCT Article 31).
4. [X] A copy of the International Application as filed (35 U.S.C. 371(c)(2))
    a. [X] is transmitted herewith (required only if not transmitted by the International Bureau).
    b. [ ] has been transmitted by the International Bureau.
    c. [ ] is not required, as the application was filed in the United States Receiving Office (RO/US).
5. [X] A translation of the International Application into English (35 U.S.C. 371(c)(2)).
6. [ ] Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
    a. [ ] are transmitted herewith (required only if not transmitted by the International Bureau).
    b. [ ] have been transmitted by the International Bureau.
    c. [ ] is not required, as the application was filed in the United States Receiving Office (RO/US)
7. [ ] A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
8. [X] An oath or declaration of the inventor (35 U.S.C. 371(c)(4)).
9. [ ] A translation of the Annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 10-15 below concern document(s) or information included:

10. [X] An Information Disclosure Statement Under 37 CFR 1.97 and 1.98.
11. [X] An assignment document for recording.
    Please mail the recorded assignment document to:
    a. [ ] the person whose signature, name & address appears at the bottom of this document.
    b. [ ] the following:
12. [X] A preliminary amendment.
13. [ ] A substitute specification
14. [ ] A change of power of attorney and/or address letter.
15. [ ] Other items or information:

[X] The U S National Fee (35 U S.C 371(c)(1)) and other fees as follows

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PATENT TRADEMARK OFFICE

9/17/01
DATE

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Description

Method and device for mapping control characters

5   The invention relates to a method and a device for mapping control characters.

In the mobile use of a computer, for example a PDA (Personal Digital Assistant) or a notebook, it is
10 possible in just the same way as with a stationary computer to access the Internet, for example via a GSM air interface. The information on the Internet is usually offered in the form of a Hypertext Markup Language (HTML), which has a multiplicity of control
15 characters, known as "tags", for special display. Furthermore, there is a clear trend toward more and more such tags, with ever increasing functionality.

Access to a computer network such as the Internet via
20 an air interface has the disadvantage that the air interface does not maintain the same bandwidth for data exchange, as is the case in a fixed network. This effect of the actually too small bandwidth is additionally exacerbated by the numerous multimedia
25 functionalities of the HTML pages on the Internet, which provide a varied, full and attractive presentation at the expense of an adequately high data transmission rate.

30 A mobile computer, which for example calls up such multimedia displays via the air interface, requires loading times which are usually likely to be unacceptable to a user. For example, there are numerous HTML pages (also: home pages, Internet pages)
35 which comprise several 100 Kbytes of data to be loaded. With a transmission rate of, for example, 9600 bits/s, this leads to loading times with which economical working is scarcely possible.

The **object** of the invention is to ensure in the case of mobile computers or a low bandwidth of a transmission channel an efficient mode of working, in particular when accessing a computer network from the mobile
5 computer.

This object is achieved according to the features of the independent patent claims. Developments of the invention also emerge from the dependent claims.
10

To achieve the object, a method for mapping control characters in which the control characters are elements of a hypertext markup language is specified. First data are read in and predetermined control characters
15 are ascertained in the first data. The control characters are used to map the first data onto second data according to a predetermined parameter.

In this case, it is particularly advantageous that the
20 mapping of the data allows a mobile computer, for example a PDA or a notebook, which is preferably connected via an air interface to a computer network, for example the Internet, to make efficient use for the mobile computer of the available bandwidth or the
25 available resources (hardware, software) on the mobile computer.

The predetermined parameter may provide, in particular, information on the hardware used in the mobile computer
30 (for example resolution of the display, details on color information, available plugins). This parameter is consequently used with preference to adapt the available bandwidth to the special capabilities of the respective mobile computer.

It should be noted here that the mobile computer is preferably connected via an air interface to a computer network, the air interface generally having a lower bandwidth than a comparable fixed network connection.

5 The computer network may be, in particular, the Internet. On the mobile computer there runs in particular a program for displaying information, for example what is known as an Internet browser (browser for short). With this browser, information, which is

10 preferably in the form of a hypertext markup language, can be displayed. In particular, the mobile computer receives the information from a (usually stationary) computer (representative of the computer network), referred to as a server. This server may alternatively

15 also be what is known as a proxy server. The information is sent from the server in a format which can be read by the mobile computer (for example as an HTML document). The diverse possibilities of HTML displays usually require an adequately "fast"

20 connection for an acceptable rate of display, that is a transmission channel which has a certain minimum bandwidth between the mobile computer and the server. An ISDN connection with 64 kbits/s, or the analog equivalent according to the V.90 standard (transmission

25 rate: up to 56 kbits/s), is customary for use of the diverse HTML display capabilities.

To be able also to work on the mobile computer with the information actually of interest (possibly with a

30 restriction in the diversity of multimedia displays), an adequately fast display is necessary, in particular the time period between requesting the information and the display. This fast display is ensured by the method described above, in that a type of display and

35 of transmission specifically suited to the capabilities of the mobile computer is ascertained in particular on the basis of the predetermined parameter (which takes into account the hardware of the mobile computer or the

possible transmission rate) and is used.

The scenario described, with a mobile computer and
fixed network computer which exchange data via an air
interface, is presented by way of example for
illustration purposes. Alternatively, for example, the
5   mobile computer may also be a stationary computer and
the air interface may be a fixed network connection.
The computer network may also be any desired network.

Within a development, the second data may represent the
10 empty set.

One development is that the control characters are HTML
tags. In this case, the HTML tags preferably have a
structure such that the following applies:

15

     <TAG> ... </TAG>

where "TAG" denotes a dummy for a desired HTML tag, the
parentheses emphasise the HTML tag and the oblique "/"
20 identifies the end of the control character sequence.
Information, indicated by "...", is usually contained
between the control characters.

Another development is that the parameter is
25 dynamically ascertained. In this case, certain
requirements or capabilities of the mobile computer or
server (analogous to the above example) are dynamically
investigated. In particular, new display capabilities
on the mobile computer, caused for example by exchange
30 of a display, can be taken into account.

One refinement is that the mapping of the control
characters is carried out onto a subset of all the
possible control characters.

Another refinement is that the control characters are mapped with at least one of the following mechanisms taken into account:

5   a) Identical mapping:
    The control character belongs to the known control characters and is passed on unchanged. Display takes place on the mobile computer.

10 b) Extraction of information:
    The control character is unknown or is not to be displayed. However, the information contained is to be displayed, preferably transparently (that is without further control information).

15
    c) Conversion to similar control characters:
    The control character is unknown or is not to be displayed, reverting instead to an alternative control character, preferably with a similar
20 effect.

    d) Erasure:
    The control character is unknown or is not to be displayed; information possibly contained is also
25 not of interest: control character/s and information (assigned to the control character/s) are erased.

    e) Extraction of alternative information:
30 The control character is unknown or is not to be displayed; however, information contained comprises alternative information which is to be displayed, possibly also with special marking.

35 Another development is that the mapping of the control characters takes place on a mobile computer, on an associated server or a proxy server.

It is also a development that a degree of scaling for detailing of the mapping is determined by the predetermined parameter. With this degree of scaling, an adaptation to a rate of display found to be

5   acceptable for the user is made possible with regard to the bandwidth available. For instance, the user may have as many features of the hypertext markup language as possible displayed to him, as long as the rate of display is found to be adequate.

10

With the method described, it is possible to respond flexibly to different control characters, including those newly added, and to agree on a specific adaptation of the mapping for each control character or

15   a group of control characters. Specifically in the case of HTML and its successors, there are constantly new features and special formatting possibilities, the mapping, conversion or removal of which are of significance in particular for the display on a mobile

20   computer.

Also specified for achieving the object is a device for mapping control characters provided with a process unit which is set up in such a way that

25   a) the control characters are elements of a hypertext markup language;
        b) first data can be read in;
        c) predetermined control characters can be ascertained in the first data;
30   d) the control characters can be used to map the first data onto second data according to a predetermined parameter.

This device is suitable in particular for carrying out

35   the method according to the invention or one of its developments explained above.

Exemplary embodiments of the invention are presented and explained below with reference to the drawing, in which:

5   figure 1   shows a block diagram with steps of a method
             for mapping control characters;

     figure 2   shows   a   block   diagram   with   mapping
             alternatives;

10

     figure 3   shows a scenario comprising a mobile computer
             and server;

     figure 4   shows a processor unit.

15

Figure 1 shows a block diagram with steps of a method for mapping control characters which are elements of a hypertext markup language. In a block 101, first data are read in; in a block 102, control characters are

20   ascertained in the first data.   In a block 103, the control characters found are used to map the first data onto   second   data   according   to   a   predetermined parameter. In this case, the second data may be empty. The   second   data   may   in   turn   also   comprise   control

25   characters, but the control characters contained in the second data are understood by the computer on which the data are prepared (for example on a mobile computer).

Figure   2   shows   a   block   diagram   with   alternative

30   possible ways of realizing the mapping of the control character or the control characters 201.   As   already mentioned, the mapping can be carried out in various ways.   The possibilities based on HTML notation are illustrated below.

a) Identical mapping, see block 202:
The control character belongs to the known control characters and is passed on unchanged. Display takes place on the mobile computer.

5   Example:

       <A HREF="http://www.test.de"> A link </A>

remains unchanged

b) Extraction of information, see blocks 203, 204:

10   The control character is unknown or is not to be displayed. However, the information contained is to be displayed, preferably transparently (that is without further control information).

Example:

15   **<DFN> Any text <DFN>**

becomes "any text".

c) Conversion to similar control characters, see block 206:

20   The control character is unknown or is not to be displayed, reverting instead to an alternative control character, preferably with a similar effect.

Example:

25   **2<SUP>nd</SUP>**

is converted to

      2<IT>nd</IT>.

d) Erasure, see block 207:

30   The control character is unknown or is not to be displayed; information possibly contained is also not of interest: control character/s and information (assigned to the control character/s) are erased.

35   Example:

      <SCRIPT>function...</SCRIPT>

is deleted completely.

e) Extraction of alternative information, see blocks 203, 205:

The control character is unknown or is not to be displayed; however, information contained comprises alternative information which is to be displayed, possibly also with special marking.

Example:

<IMG="http://www.test.de/test.gif" ALT="A test">

becomes "[image: a test]".

In **figure 3**, a scenario comprising a mobile computer 301 and a fixed station (server) 302 is represented. The mobile computer 301 transmits the predetermined parameter, which scales the mode of the adaptation of the control characters, that is adapts it specifically to the hardware of the mobile computer 301 and possibly the bandwidth of the communication interface 306, to the server 302 by means of the air interface 305, 306, 304. Alternatively, the adaptation to the bandwidth of the communication interface may also take place on the server 302 side (the parameter is accordingly predetermined there). The server 302 is a representative of a computer network, indicated by the Internet 303. The communication between the mobile computer 301 and the server 302 takes place via the communication interface 306 with the parameter taken into account, the requirements and capabilities of the mobile computer 301 and of the communication interface 306 specifically being taken into account.

In **figure 4**, a processor unit PRZE is represented. The processor unit PRZE comprises a processor CPU, a memory SPE and an input/output interface IOS, which is used in different ways via an interface IFC: an output is made visible on a monitor MON and/or is output on a printer PRT via a graphics interface. An input takes place via a mouse MAS or a keyboard TAST. The processor unit PRZE also has a data bus BUS, which ensures the

connection of a memory

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MEM, the processor CPU and the input/output interface
IOS. Furthermore, additional components, for example
additional memories, data storage units (hard disk) or
scanners, can be connected to the data bus BUS.

Patent claims

1. A method for mapping control characters
    a) in which the control characters are elements of
       a hypertext markup language;
    b) in which first data are read in;
    c) in which predetermined control characters are
       ascertained in the first data;
    d) in which the control characters can be used to
       map the first data onto second data according to
       a predetermined parameter.

2. The method as claimed in claim 1, in which the
    second data represent the empty set.

3. The method as claimed in one of the preceding
    claims, in which the parameter characterizes
    underlying hardware.

4. The method as claimed in one of the preceding
    claims, in which the control characters are HTML
    tags.

5. The method as claimed in one of the preceding
    claims, in which the parameter is dynamically
    determined.

6. The method as claimed in one of the preceding
    claims, in which the parameter is ascertained on
    the basis of the resources of a computer on which
    the mapping takes place.

7. The method as claimed in one of the preceding
    claims, in which the parameter is ascertained on
    the basis of the resources of a communication
    connection between a first computer, on which the
    mapping takes place, and a second computer, which
    acts as a data server.

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8. The method as claimed in claim 7, in which the first computer is a mobile computer.

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9. The method as claimed in claim 7 or 8, in which the second computer is a computer from a network.

10. The method as claimed in claim 9, in which the network is the Internet.

11. The method as claimed in one of the preceding claims, in which the mapping of the control characters is carried out onto a subset of all the possible control characters.

12. The method as claimed in one of the preceding claims, in which the control characters are mapped as specified below, taking into account one of the following possibilities:
   a) the control character belongs to a predetermined set of known control characters: identical mapping takes place;
   b) the control character is unknown: the text contained is transparently mapped;
   c) the control character is unknown: it is mapped into a known control character;
   d) the control character is unknown: the text contained, including control characters, is erased;
   e) the control character is unknown: an alternative text entry is sought and is transparently displayed.

13. The method as claimed in one of the preceding claims, in which the mapping takes place on a mobile computer, on an associated server or in a proxy server.

14. The method as claimed in one of the preceding claims, in which the predetermined parameter is used for determining a

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degree of scaling for detailing of the mapping.

15. A device for mapping control characters provided
    with a processor unit which is set up in such a way
    that
    a) the control characters are elements of a
       hypertext markup language;
    b) first data can be read in;
    c) predetermined control characters can be
       ascertained in the first data;
    d) the control characters can be used for mapping
       the first data onto second data according to a
       predeterminable parameter.

Abstract

Method and device for mapping control characters

A method for mapping control characters in which the control characters are elements of a hypertext markup language is specified. First data are read in and predetermined control characters are ascertained in the first data. The control characters are used to map the first data onto second data according to a predetermined parameter.

Patent claims

1. A method for mapping control characters (201),

    a) in which the control characters are elements of a hypertext markup language;

    b) in which first data are read in (101);

    c) in which predetermined control characters are ascertained in the first data (102);

    d) in which the control characters can be used to map the first data onto second data according to a predetermined parameter (103)

    e) in which the parameter is dynamically determined, the parameter being ascertained on the basis of the resources of a computer on which the mapping takes place and/or ascertained on the basis of the resources of a communication connection between a mobile first computer and a second computer, which acts as a data server.

2. The method as claimed in claim 1, in which the second data represent the empty set.

3. The method as claimed in one of the preceding claims, in which the parameter characterizes underlying hardware.

4. The method as claimed in one of the preceding claims, in which the control characters are HTML tags.

5. The method as claimed one of the preceding claims, in which the second computer is a computer from a network.

6. The method as claimed in claim 5, in which the

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- 11a -

network is the Internet.

7.   The method as claimed in one of the preceding
     claims, in which the mapping of the control
     characters is carried out onto a subset of all the
     possible control characters.

8.   The method as claimed in one of the preceding
     claims, in which the control characters are mapped
     as specified below, taking into account one of the
     following possibilities:
     a) the control character belongs to a predetermined
        set of known control characters: identical
        mapping takes place;
     b) the control character is unknown: the text
        contained is transparently mapped;
     c) the control character is unknown: it is mapped
        into a known control character;
     d) the control character is unknown: the text
        contained, including control characters, is
        erased;
     e) the control character is unknown: an alternative
        text entry is sought and is transparently
        displayed.

9.   The method as claimed in one of the preceding
     claims, in which the predetermined parameter is
     used for determining a degree of scaling for
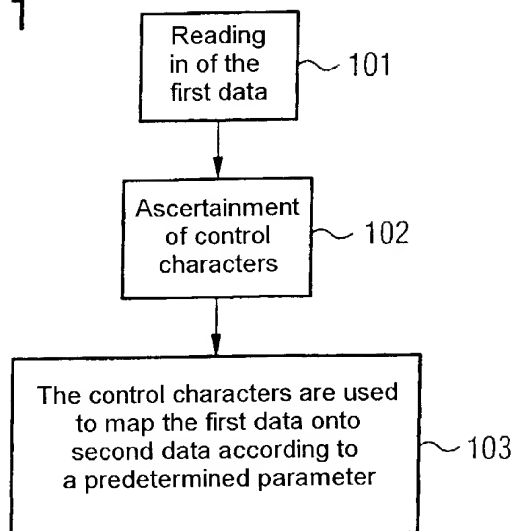   detailing of the mapping.

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1/3
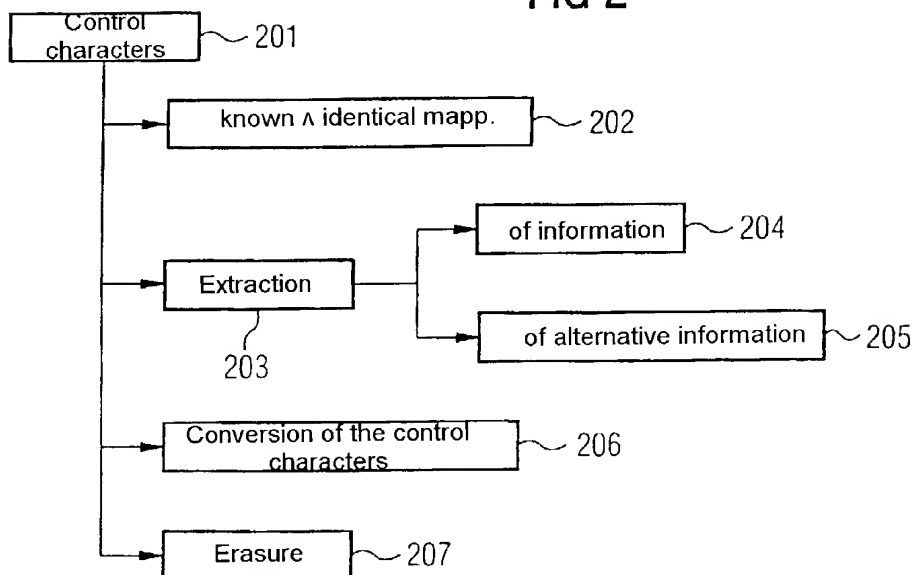
FIG 1

```
Reading
in of the      ~ 101
first data
      |
      v
Ascertainment
of control      ~ 102
characters
      |
      v
The control characters are used
to map the first data onto
second data according to      ~ 103
a predetermined parameter
```

FIG 2

```
Control
characters      ~ 201
      |
      +--> known ∧ identical mapp.      ~ 202
      |
      +--> Extraction ---+--> of information      ~ 204
      |     203          |
      |                  +--> of alternative information      ~ 205
      |
      +--> Conversion of the control
      |    characters      ~ 206
      |
      +--> Erasure      ~ 207
```

FIG 3

304

Communication
interface
306

305

Mobile
computer

301
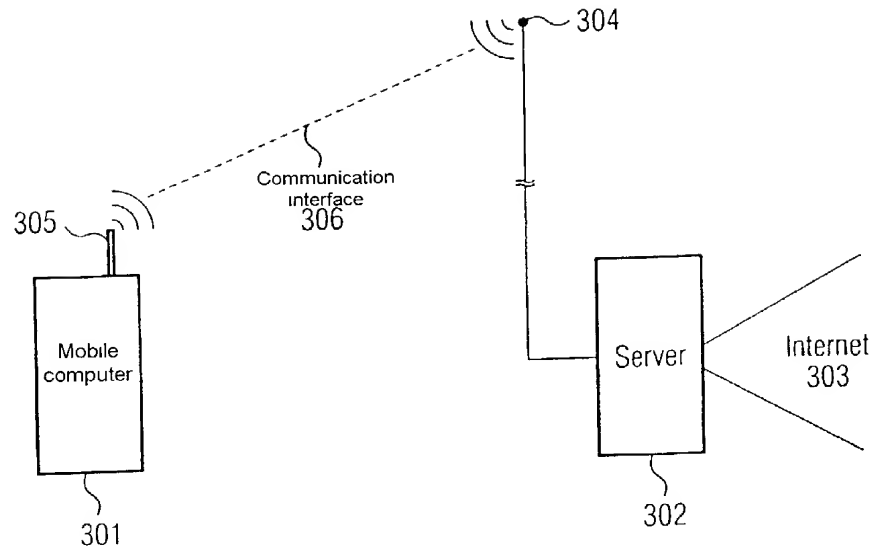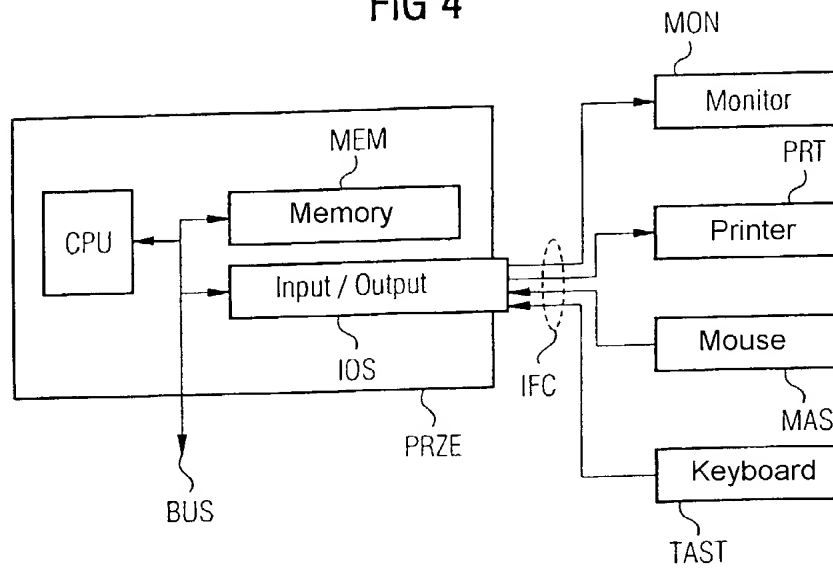
Server

Internet
303

302

FIG 4

Declaration and Power of Attorney For Patent Application
Erklärung Für Patentanmeldungen Mit Vollmacht
German Language Declaration

Als nachstehend benannter Erfinder erkläre ich hiermit an Eides Statt:

As a below named inventor, I hereby declare that

dass mein Wohnsitz, meine Postanschrift, und meine Staatsangehörigkeit den im Nachstehenden nach meinem Namen aufgeführten Angaben entsprechen,

My residence, post office address and citizenship are as stated below next to my name,

dass ich, nach bestem Wissen der ursprüngliche, erste und alleinige Erfinder (falls nachstehend nur ein Name angegeben ist) oder ein ursprünglicher, erster und Miterfinder (falls nachstehend mehrere Namen aufgeführt sind) des Gegenstandes bin, für den dieser Antrag gestellt wird und für den ein Patent beantragt wird für die Erfindung mit dem Titel:

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

Verfahren und Anordnung zur Abbildung von Steuerzeichen

Method and device for mapping control characters

deren Beschreibung

the specification of which

(zutreffendes ankreuzen)
- ☐ hier beigefügt ist.
- ☐ am __14.03.2000__ als
PCT internationale Anmeldung
PCT Anmeldungsnummer _____ PCT/DE00/00779
eingereicht wurde und am _____
abgeändert wurde (falls tatsächlich abgeändert).

(check one)
- ☐ is attached hereto.
- ☐ was filed on __14.03.2000__ as
PCT international application
PCT Application No. ____ PCT/DE00/00779
and was amended on _____
(if applicable)

Ich bestätige hiermit, dass ich den Inhalt der obigen Patentanmeldung einschliesslich der Ansprüche durchgesehen und verstanden habe, die eventuell durch einen Zusatzantrag wie oben erwähnt abgeändert wurde.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims as amended by any amendment referred to above.

Ich erkenne meine Pflicht zur Offenbarung irgendwelcher Informationen, die für die Prüfung der vorliegenden Anmeldung in Einklang mit Absatz 37, Bundesgesetzbuch, Paragraph 1.56(a) von Wichtigkeit sind, an.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

Ich beanspruche hiermit ausländische Prioritätsvorteile gemäss Abschnitt 35 der Zivilprozessordnung der Vereinigten Staaten, Paragraph 119 aller unten angegebenen Auslandsanmeldungen für ein Patent oder eine Erfindersurkunde, und habe auch alle Auslandsanmeldungen für ein Patent oder eine Erfindersurkunde nachstehend gekennzeichnet, die ein Anmeldedatum haben, das vor dem Anmeldedatum der Anmeldung liegt, für die Priorität beansprucht wird.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Page 1

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Patent and Trademark Office-U.S. DEPARTMENT OF COMMERCE

IDNR: 2590 / V: 99-1.00 / B:Val

German Language Declaration

Prior foreign appplications
Priorität beansprucht

Priority Claimed

19911980.5	DE	17.03.1999	☒	☐
(Number)	(Country)	(Day Month Year Filed)	Yes	No
(Nummer)	(Land)	(Tag Monat Jahr eingereicht)	Ja	Nein

			☐	☐
(Number)	(Country)	(Day Month Year Filed)	Yes	No
(Nummer)	(Land)	(Tag Monat Jahr eingereicht)	Ja	Nein

			☐	☐
(Number)	(Country)	(Day Month Year Filed)	Yes	No
(Nummer)	(Land)	(Tag Monat Jahr eingereicht)	Ja	Nein

Ich beanspruche hiermit gemäss Absatz 35 der Zivilprozessordnung der Vereinigten Staaten, Paragraph 120, den Vorzug aller unten aufgeführten Anmeldungen und falls der Gegenstand aus jedem Anspruch dieser Anmeldung nicht in einer früheren amerikanischen Patentanmeldung laut dem ersten Paragraphen des Absatzes 35 der Zivilprozeßordnung der Vereinigten Staaten, Paragraph 122 offenbart ist, erkenne ich gemäss Absatz 37, Bundesgesetzbuch, Paragraph 1.56(a) meine Pflicht zur Offenbarung von Informationen an, die zwischen dem Anmeldedatum der früheren Anmeldung und dem nationalen oder PCT internationalen Anmeldedatum dieser Anmeldung bekannt geworden sind.

I hereby claim the benefit under Title 35. United States Code. §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §122, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occured between the filing date of the prior application and the national or PCT international filing date of this application.

PCT/DE00/00779	14.03.2000	anhängig	pending
(Application Serial No.)	(Filing Date D, M, Y)	(Status)	(Status)
(Anmeldeseriennummer)	(Anmeldedatum T, M, J)	(patentiert, anhängig, aufgegeben)	(patented, pending, abandoned)

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Ich erkläre hiermit, dass alle von mir in der vorliegenden Erklärung gemachten Angaben nach meinem besten Wissen und Gewissen der vollen Wahrheit entsprechen, und dass ich diese eidesstattliche Erklärung in Kenntnis dessen abgebe, dass wissentlich und vorsätzlich falsche Angaben gemäss Paragraph 1001, Absatz 18 der Zivilprozessordnung der Vereinigten Staaten von Amerika mit Geldstrafe belegt und/oder Gefängnis bestraft werden koennen, und dass derartig wissentlich und vorsätzlich falsche Angaben die Gültigkeit der vorliegenden Patentanmeldung oder eines darauf erteilten Patentes gefährden können.

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German Language Declaration

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POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. *(list name and registration number)*

And I hereby appoint

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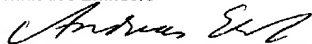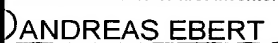Telefongespräche bitte richten an: *(Name und Telefonnummer)*

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Unterschrift des Erfinders — Datum	Second Inventor's signature — Date
Wohnsitz	Residence
Staatsangehörigkeit	Citizenship
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(Bitte entsprechende Informationen und Unterschriften im Falle von dritten und weiteren Miterfindern angeben).

(Supply similar information and signature for third and subsequent joint inventors).

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